Acer X193W
Service Guide

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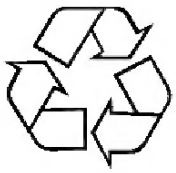

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Conventions

The following conventions are used in this manual:

Screen messages	Denotes actual messages that appear on screen
Note	Gives bits and pieces of additional information related to the current topic.
Warning	Alerts you to any damage that might result from doing or not doing specific actions.
Caution	Gives precautionary measures to avoid possible hardware or software problems.
Important	Reminds you to do specific actions relevant to the accomplishment of procedures.

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Preface

Before using this information and the product it supports, please read the following general information.

1. this Service Guide provides you with all technical information relating to the BASICCONFIGURATION decided for Acer' s "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.

2. please not WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide, for ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and Service of customer machines.

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WARNING: (FOR FCC CERTIFIED MODELS)

NOTE: this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, Which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

NOTICE:

1. The changes or modifications not expressly approved by the party responsible for compliance could void

the user's authority to operate the equipment.

2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibility of the user to correct such interference.

As an ENERGY STAR® Partner our company has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

WARNING:

To prevent fire or chock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

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PRECAUTIONS

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, Swimming pool or in a wet basement.

- Do not place the monitor on an unstable trolley, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a trolley or stand recommended by the manufacture or sold with the monitor. If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacture and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet area provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC, Min. 3.5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- For use only with the attached power adapter (output 12V DC) which have UL,CSA listed license

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SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitor and do not indicate a problem.

NOTES

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness in the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.

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Chapter 1

Monitor Feature

LCD Panel	Driving system	TFT Color LCD
	Size	19"W
	Pixel pitch	0.2835 mm
	Viewable angle	160(H) x 160 (V) degree
	Brightness	MTD panel: 300 cd/m² (typ.) AUO panel: 300 cd/m² (typ.)
	Contrast Ratio	MTD panel: 600:1(typ.) AUO panel: 600:1(typ.)
	Response time	5ms (Tr+Tf)
Input	Video	R,G,B Analog, DVI box (optional)
	Separate Sync	H/V TTL
	H-Frequency	31-80KHZ
	V-Frequency	56-75HZ
Display Color		MTD: 16.5 million Colors AUO: 16.7 million Colors
Maximum Dot Clock ®		140MHz
Max Resolution		1440X900 @75HZ
Plug & Play		VESA FPMPMI
EPA ENERGY STAR	ON Mode	<37W
	OFF Mode	<1W
Audio output		Rated Power 2.0W rms(Per channel)
Input Connector		D-Sub 15 pin, DVI-D connector(optional)
Input Video Signal		Analog : 0.7Vp-p,75OHM
Screen Size (Active)		Horizontal : 408.24mm Vertical : 255.15mm
Power Source		90~264 Vac, 47~63HZ
Environmental Considerations		Operating Temp : 5 to 40 degree ; Storage Temp : -20 to 60 degree ; Operating Humidity : 20% to 80%
Weight (N.W.)		TBDkg
Dimension		506(W) x 415(H) x 126(D) mm(with packing)

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External Controls :	Switch	* Power Switch * MENU / EXIT * < / Volume * > / Volume * AUTO / ENTER * e-Color
		* Contrast/brightness * Focus * Clock * H.Position * W.Position * Language * OSD Color temperature * OSD Position & Timeout * Auto Config * Input * Information * Reset * Exit
Regulatory Compliance		cUL, FCC, TUV, CE, TCO03.

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Timings

The product has 34 memory modes in total. 26 modes are preset and 8 modes are user definable.

MODE NO.	1	2	3	4
RESOLUTION	720 x 400	640 x 480	640x480	640 x 480
Dot clock(MHz)	28.321	25.175	30.24	31.5
f h	31.469kHz	31.469kHz	35.0kHz	37.861kHz
H-Total (us)	31.78(900dots)	31.778 (800 dots)	28.571(864 dots)	26.413 (832 dots)
H-Sync (us)	3.813(108dots)	3.813 (96 dots)	2.116 (64 dots)	1.270(40 dots)
H-B-P (us)	1.907(54dots)	1.907 (48 dots)	3.175 (96 dots)	4.064(128 dots)
H-Active (us)	25.42(720dots)	25.422 (640 dots)	21.164 (640 dots)	20.317(640 dots)
H-F-P (us)	0.636(18dots)	0.636 (16 dots)	2.116 (64 dots)	0.762(24 dots)
f v	70Hz(70.087)	60Hz (59.940)	66.7 HZ (66.667)	72.809Hz
V-Total (ms)	14.27(449 lines)	16.683 (525 lines)	15.000 (525 lines)	13.735(520 lines)
V-Sync (ms)	0.064(2 lines)	0.064 (2 lines)	0.086 (3 lines)	0.079(3 lines)
V-B-P (ms)	1.112(35 lines)	1.049 (33 lines)	1.114 (39 lines)	0.739(28 lines)
V-Active (ms)	12.71(400 lines)	15.253 (480 lines)	13.714 (480 lines)	12.678(480 lines)
V-F-P (ms)	0.384(12 lines)	0.317 (10 lines)	0.086 (3 lines)	0.237(9 lines)
SYNC. H/V	-/+	- / -	+/+	-/-
POLARITY			Or -/-	
SEP . SYNC	Y	Y	Y	Y
MODE NO.	**5**	**6**	**7**	**8**
RESOLUTION	640 x 480	800 x 600	800 x 600	800 x 600
Dot clock(MHz)	31.5	36	40	49.5
f h	37.500kHz	35.16kHz	37.879kHz	46.875kHz
H-Total (us)	26.667(840 dots)	28.44(1024 dots)	26.40 (1056 dots)	21.333 (1056dots)
H-Sync (us)	2.032 (64 dots)	2.00(72 dots)	3.200 (128 dots)	1.616 (80 dots)
H-B-P (us)	3.810 (120 dots)	3.56(128 dots)	2.200 (88 dots)	3.232 (160 dots)
H-Active (us)	20.317 (640 dots)	22.22(800 dots)	20.00 (800 dots)	16.162 (800 dots)
H-F-P (us)	0.508 (16 dots)	0.67(24 dots)	1.000 (40 dots)	0.323 (16 dots)
f v	75Hz (75)	56.25	60Hz (60.316)	75Hz (75.000)
V-Total (ms)	13.333 (500 lines)	17.78(625 lines)	16.58 (628 lines)	13.333 (625lines)
V-Sync (ms)	0.080 (3 lines)	0.06(2 lines)	0.106 (4 lines)	0.064 (3 lines)
V-B-P (ms)	0.427 (16 lines)	0.63(22 lines)	0.607 (23 lines)	0.448 (21 lines)
V-Active (ms)	12.80 (480 lines)	17.07(600 lines)	15.84 (600 lines)	12.80 (600lines)
V-F-P (ms)	0.027 (1 line)	0.03(1 line)	0.026 (1 line)	0.021 (1 line)
SYNC. H/V	- / -	+/+	+ / +	+ / +
POLARITY				
SEP . SYNC	Y	Y	Y	Y

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MODE NO.	9	10	11	12
RESOLUTION	800 x 600	832 x 824	1024 x 768	1024 x 788
Dot clock(MHz)	50	57.283	65	75
f h	48.077kHz	49.72kHz	48.363kHz	56.48kHz
H-Total (us)	20.80 (1040dots)	20.11(1152 dots)	20.677(1344 dots)	17.71(1328 dots)
H-Sync (us)	2.400 (120 dots)	1.12(64 dots)	2.092(136 dots)	1.81(136 dots)
H-B-P (us)	1.280 (64 dots)	3.91(224 dots)	2.462(160 dots)	1.92(144 dots)
H-Active (us)	16.00 (800 dots)	14.52(832 dots)	15.754(1024 dots)	13.65(1024 dots)
H-F-P (us)	1.120 (56 dots)	0.56(32 dots)	0.369(24 dots)	0.32(24 dots)
f v	72Hz (72.188)	74.55Hz	60.004Hz	70.07Hz
V-Total (ms)	13.85 (668 lines)	13.41(667 lines)	16.666(806 lines)	14.27(808 lines)
V-Sync (ms)	0.125 (8 lines)	0.06(3 lines)	0.124(6 lines)	0.11(8 lines)
V-B-P (ms)	0.478 (23 lines)	0.78(39 lines)	0.800(29 lines)	0.51(29 lines)
V-Active (ms)	12.48 (600 lines)	12.55 (624 lines)	15.880(768 lines)	13.60(768 lines)
V-F-P (ms)	0.770 (37 line)	0.02(1 line)	0.062(3 lines)	0.05(3 lines)
SYNC. H/V	+ / +	+/+	-/-	-/-
POLARITY				
SEP . SYNC	Y2	Y	Y	Y
MODE NO.	**13**	**14**	**15**	**16**
RESOLUTION	1024 x 768	1280 x 1024	1280 x 1024	1152 x 884
Dot clock(MHz)	78.75	108	135	108
f h	60.02kHz	63.981kHz	79.976KHz	67.5 KHz
H-Total (us)	16.68(1312 dots)	15.830 (1688 dots)	12.504 (1688 dots)	14.815(1600 dots)
H-Sync (us)	1.22 (96 dots)	1.037 (112 dots)	1.087 (144 dots)	1.185(128 dots)
H-B-P (us)	2.23 (176 dots)	2.296 (248 dots)	1.837 (248 dots)	2.370(256 dots)
H-Active (us)	13.00 (1024 dots)	11.852 (1280 dots)	9.481 (1280dots)	10.667(1152 dots)
H-F-P (us)	0.20 (16 dots)	0.444 (48 dots)	0.119 (16 dots)	0.593(64 dots)
f v	75.03Hz	60.020Hz	75.025 Hz	75.06 Hz
V-Total (ms)	13.33 (800 lines)	16.661 (1066 lines)	13.329 (1066 lines)	13.333(900 lines)
V-Sync (ms)	0.05 (3 lines)	0.047 (3 lines)	0.038 (3 lines)	0.044(3 lines)
V-B-P (ms)	0.47 (28 lines)	0.594 (38 lines)	0.475 (38 lines)	0.474(32 lines)
V-Active (ms)	12.80 (768 lines)	16.005 (1024 lines)	12.804(1024 lines)	12.800(864 lines)
V-F-P (ms)	0.02 (1 lines)	0.016 (1 line)	0.013 (1 lines)	0.015(1 lines)
SYNC. H/V	+/+	+/+	+/+	+/+
POLARITY				
SEP . SYNC	Y	Y	Y	Y

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MODE NO.	17	19	20	21
RESOLUTION	1280 x 960	1280 x 720	1280 x 768	1280 x 768
Dot clock(MHz)	108	74.481	79.5	102.25
f h	60.000 KHz	44.760KHz	47.776KHz	60.289KHz
H-Total (us)	16.667 (1800dots)	22.341 (1664dots)	20.931 (1864dots)	16.587 (1696dots)
H-Sync (us)	1.037 (112 dots)	1.826 (138 dots)	1.61 (128 dots)	1.252 (128 dots)
H-B-P (us)	2.889 (312 dots)	2.578 (192 dots)	2.415 (192 dots)	2.034 (208 dots)
H-Active (us)	11.852 (1280 dots)	17.186 (1280 dots)	16.101 (1280 dots)	12.518 (1280 dots)
H-F-P (us)	0.889 (96 dots)	0.752 (56 dots)	0.805 (64 dots)	0.782 (80 dots)
f v	60.00Hz	60.000Hz	59.87Hz	74.893Hz
V-Total (ms)	16.667 (1000 lines)	16.867 (746 lines)	16.703 (798 lines)	13.352 (805 lines)
V-Sync (ms)	0.050 (3 lines)	0.087 (3 lines)	0.147 (7 lines)	0.116 (7 lines)
V-B-P (ms)	0.600 (36 lines)	0.492 (22 lines)	0.419 (20 lines)	0.448 (27 lines)
V-Active (ms)	16.000 (960 lines)	16.086 (720 lines)	16.075 (768 lines)	12.739 (768 lines)
V-F-P (ms)	0.017 (1 line)	0.022 (5 lines)	0.063 (3 lines)	0.05 (3 lines)
SYNC. H/V	+ / +	- / +	-/+	-/+
POLARITY				
SEP . SYNC	Y	Y	Y	Y
MODE NO.	**22**	**23**	**24**	**26**
RESOLUTION	1360 x 768	1440 x 900	1440 x 900	848 x 480
Dot clock(MHz)	85.5	106.5	136.75	33.75
f h	47.712KHz	55.935KHz	70.635KHz	31.02 KHz
H-Total (us)	20.959 (1792dots)	17.878 (1904dots)	14.157 (1936dots)	32.237 (1088 dots)
H-Sync (us)	1.31 (112 dots)	1.427 (152 dots)	1.112 (152 dots)	3.319 (112 dots)
H-B-P (us)	2.994 (256 dots)	2.178 (232 dots)	1.814 (248 dots)	3.319 (112 dots)
H-Active (us)	15.906 (1380 dots)	13.521 (1440 dots)	10.53 (1440 dots)	25.126 (848 dots)
H-F-P (us)	0.749 (64 dots)	0.751 (80 dots)	0.702 (98 dots)	0.474 (16 dots)
f v	60.015Hz	59.887Hz	74.984Hz	60 Hz
V-Total (ms)	16.662 (795 lines)	16.898 (934 lines)	13.336 (942 lines)	16.667 (517 lines)
V-Sync (ms)	0.126 (8 lines)	0.107 (6 lines)	0.085 (6 lines)	0.258 (8 lines)
V-B-P (ms)	0.377 (18 lines)	0.447 (25 lines)	0.467 (33 lines)	0.741 (23 lines)
V-Active (ms)	16.097 (768 lines)	18.09 (900 lines)	12.741 (900 lines)	15.474 (480 lines)
V-F-P (ms)	0.063 (3 lines)	0.054 (3 lines)	0.042 (3 lines)	0.193 (6 lines)
SYNC. H/V	+ / +	-/+	-/+	+ / +
POLARITY				
SEP . SYNC	Y	Y	Y	Y

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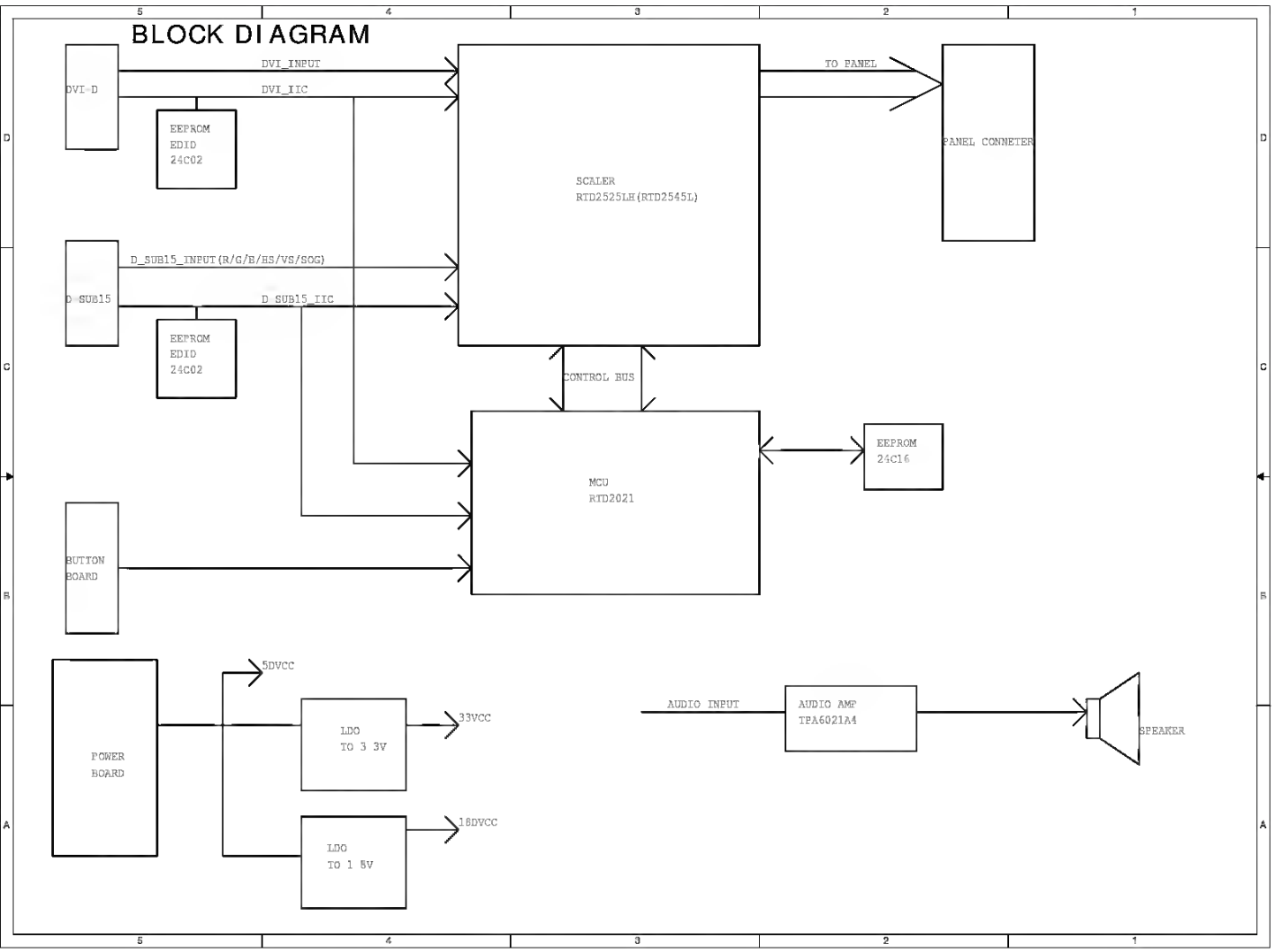

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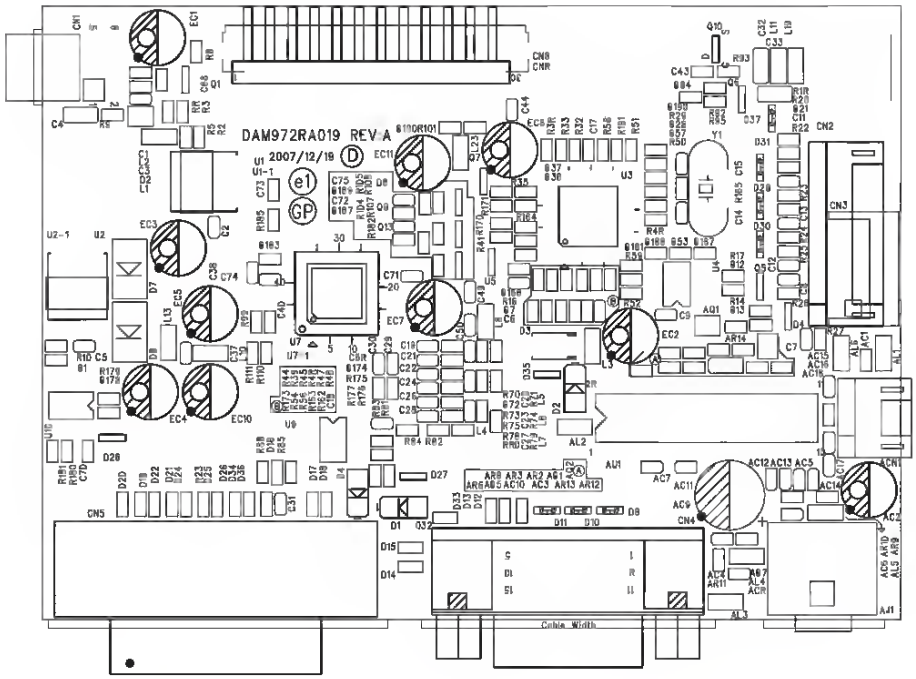
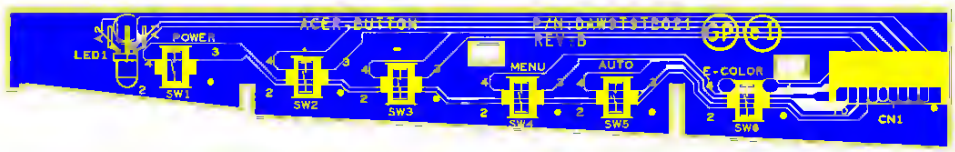
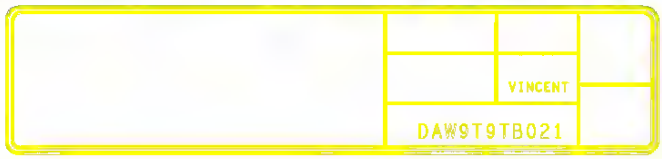
PCB CONDUCTOR VIEW







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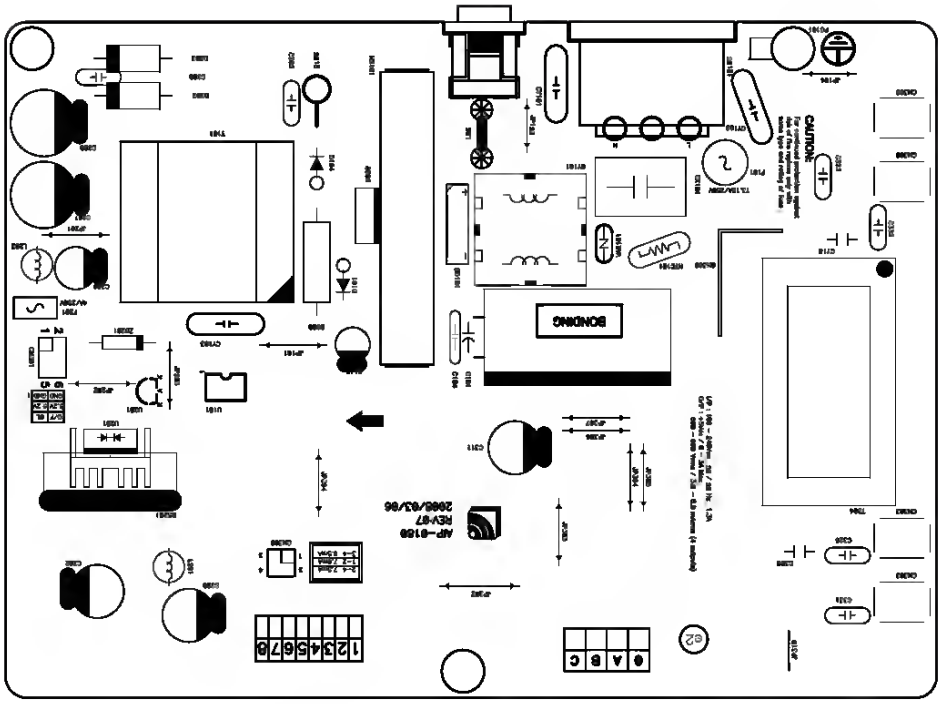

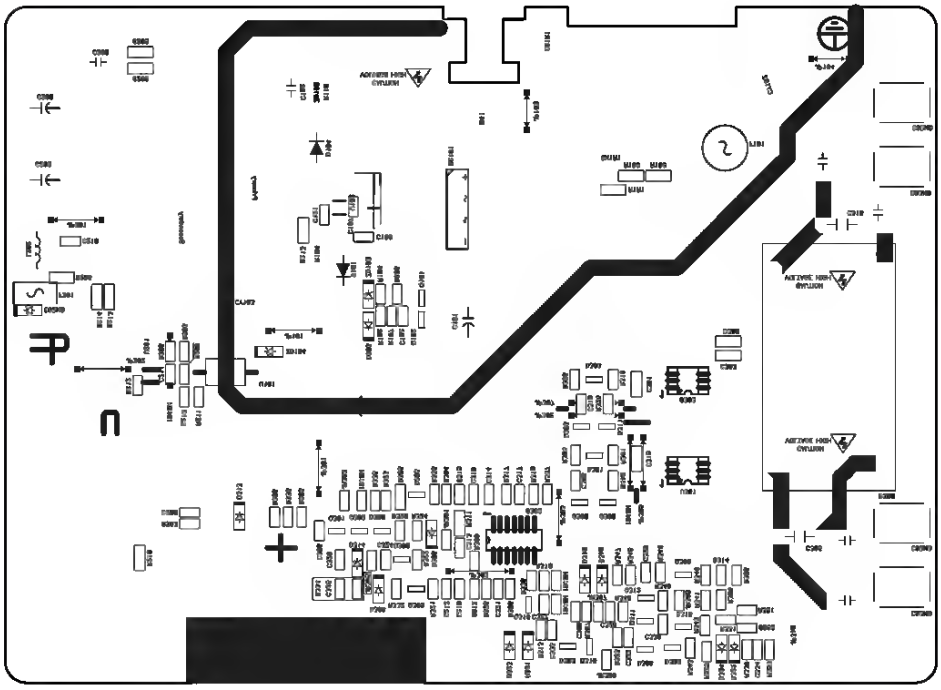

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Chapter 2

OPERATING INSTRUCTIONS

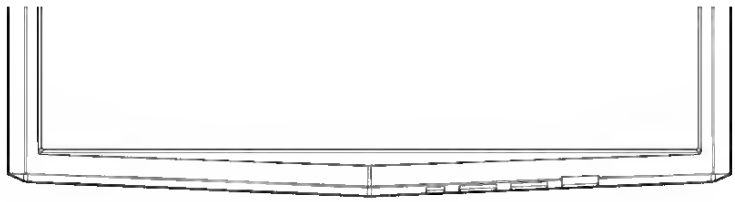
Front Panel Definition

This Section defines the front panel User Interface for Led Indictor and Key function.

Key Definition:

There are six keys defined in this system and described bellows.

* Adjusting display settings(User can select the key "AUTO + < + POWER" to enter factory mode)



External Controls

1	⏻	POWER	Power on/off Blue: power on Amber: in sleep mode
2	MENU	OSD Function	Press to view OSD. Press again to exit a selection in OSD.
3	<	Left/ PLUS	If OSD is active, press to select or adjust OSD options. If OSD is inactive, press once, then press the buttons marked < or > to adjust the volume.
4	>	Right / MINUS	If OSD is active, press to select or adjust OSD options. If OSD is inactive, press once, then press the buttons marked < or > to adjust the volume.
5	AUTO	AUTO	If OSD is active, press to enter a selection in OSD. If OSD is inactive, press and the monitor will automatically optimize the position, focus and clock of your display.
6	e	eColor	Adjusted Brightness and Contrast by e-color, there are 5 options for your refrence: User, Text, Standard, Graphics, Movie

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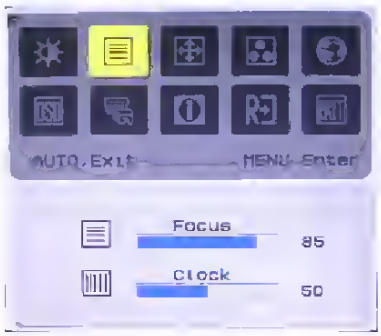
OSD menu

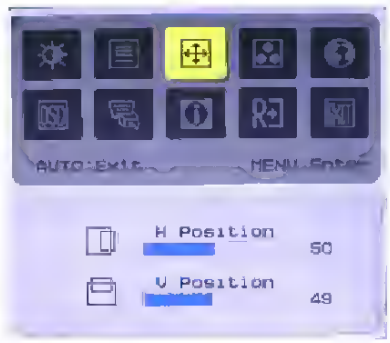
Acer eColor Management:
Brightness and Contrast adjusted by Acer eColor Management.

User:
Brightness and Contrast adjusted by User mode.



Focus:
This removes any horizontal distortion and makes the picture clear and sharp.

Clock:
If there are any vertical stripes seen on the background of the screen, this renders them less noticeable by minimizing their size. It also changes the size of the horizontal screen.



H-Position:
This adjusts the horizontal.

V-Position:
This adjusts the vertical.

Color adjustment:
There are three ways to adjust color:
Warm (reddish white)
Cool (bluish white)
User (you can adjust the colors red, green and blue to the intensity you desire)

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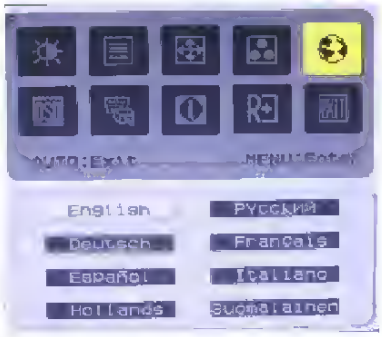
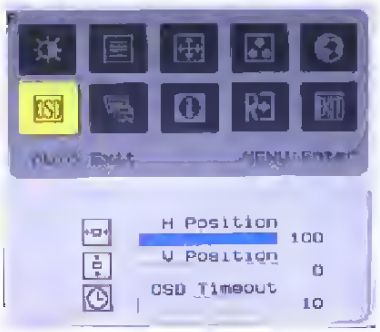
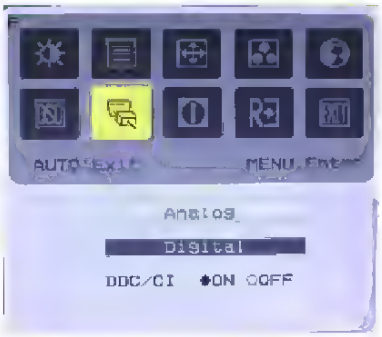


Language for EU:
English, Deutsch, Espanol, Hollands, Pyccknn, Francais, Italiano,

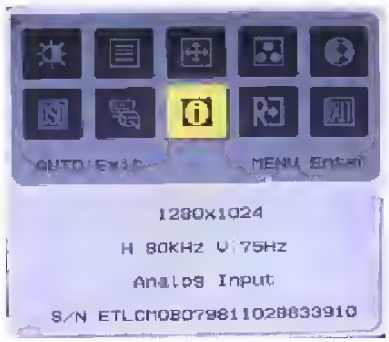
Suomalainen



OSD Settings:
This changes the position of the OSD window on the screen and the staying time.



Input signal:
Select either Analog Input or Digital Input video.



Information:
This shows information about the screen.

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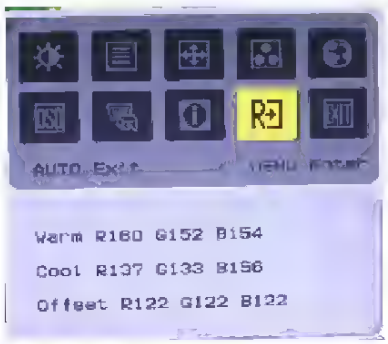


This page only be visible in factory mode

R,G,B OFFSET :

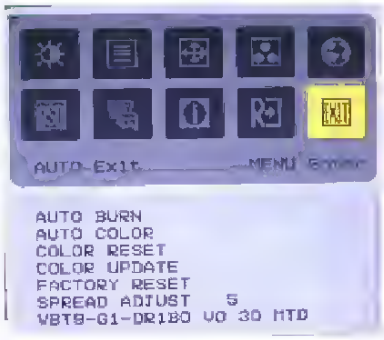
Adjust current RGB cut off level

R,G,B GAIN :

Adjust current RGB Driver value

SPREAD :

Adjust chip set internal frequency spread effect for EMI testing



This page only be visible in factory mode

AUTO BURN :

Use the chip set internal pattern for hot running monitor panel and inverter

AUTO COLOR :

Perform Auto Balance measurement by chip set internal signal. And reference these values to initial all other color temperature detail parameters

COLOR UPDATE:

Force presently R,G,B offset and gain parameters update to currently temperature memory address

FACTORY RESET :

Recall to factory setting and power off immediately

VERSION :

Display F/W version and panel vender and DDC serial no

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Acer e-color management

key

	Brightness	Contrast
User	77	50
Text	44	50
Standard	77	50
Graphics	97	60
Movie	77	56

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LED Definition

The system equips one dual color (blue/amber) led to indict system status and defined as bellows:

LED Color	System Status
Blue	System in normal operation mode
Amber	System in power-saving mode
Dark	System in power-off mode

LOGO:

When the monitor is power on, the LOGO will be showed in the center, and disappear slowly.

HOW TO OPTIMIZE THE DOS-MODE

Plug and play

Plug & play DDC2B feature

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities. The communication channel is defined in two levels, DDC2B.

The DDC2B is a bi-directional data channel based on the I^2C protocol. The host can request EDID information over the DDC2B channel.

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THIS MONITOR WILL APPEAR TO BE NON-FUNCTIONAL IF THERE IS NO VIDEO INPUT SIGNAL. IN ORDER FOR THIS MONITOR TO OPERATE PROPERLY, THERE MUST BE A VIDEO INPUT SIGNAL.

This monitor meets the Green monitor standards as set by the Video Electronics Standards Association(VESA) and/or the United States Environmental Protection Agency (EPA) and The Swedish Confederation Employees (NUTEK). This feature is designed to conserve electrical energy by reducing power consumption when there is no video-input signal present. When there is no video input signal this monitor, following a time-out period, will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. The display is restored by pressing a key on the keyboard, or clicking the mouse.

USING THE RIGHT POWER CORD

The accessory power cord for the Northern American region is the wallet plug with NEMA 5-15 style and is UL listed and CSA labeled. The voltage rating for the power cord shall be 125 volt AC.
Supplied with units intended for connection to power outlet of personal computer: Please use a cord set consisting of a minimum No. 18 AWG, type SJT or SVT three conductors flexible cord. One end terminates with a grounding type attachment plug, rated 10A, 250V,CEE-22 male configuration. The other end terminates with a molded-on type connector body, rated 10A, 250V, having standard CEE-22 female configuration.
Please note that power supply card needs to use VDE 0602, 0625, 0821 approval power cord in European counties.

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Chapter 3

Machine assembly

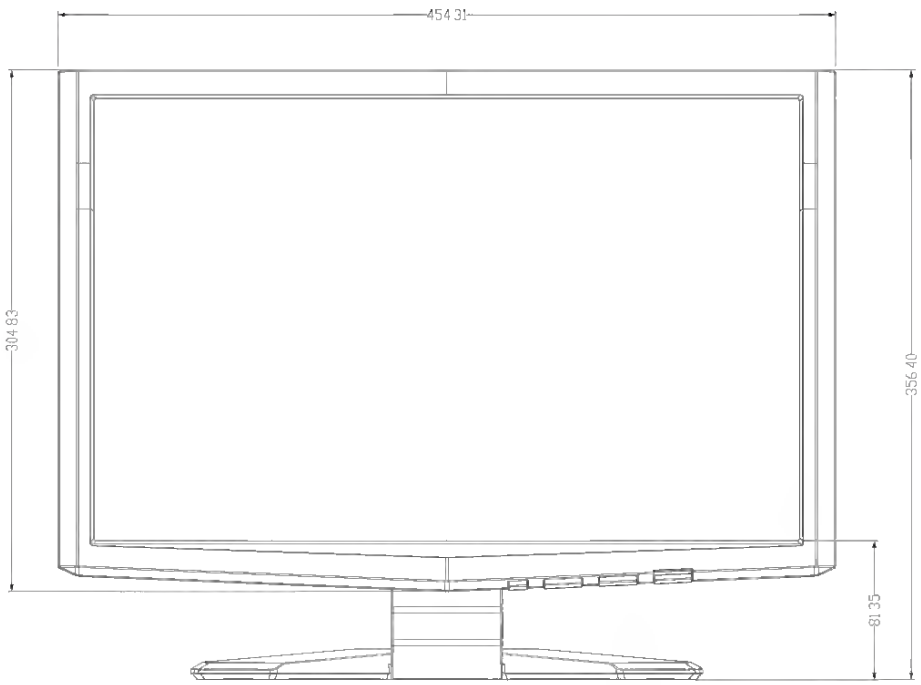
This chapter contains step-by-step procedures on how to assemble the monitor for maintenance and trouble shooting

NOTE: 1. The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding to avoid mismatch when putting back the components.

2. Note: The monitor surface is susceptible to scratching! Therefore, lay the monitor on a soft surface when mounting or removing the base.

3. Wear gloves.

Front View: (unit: mm)



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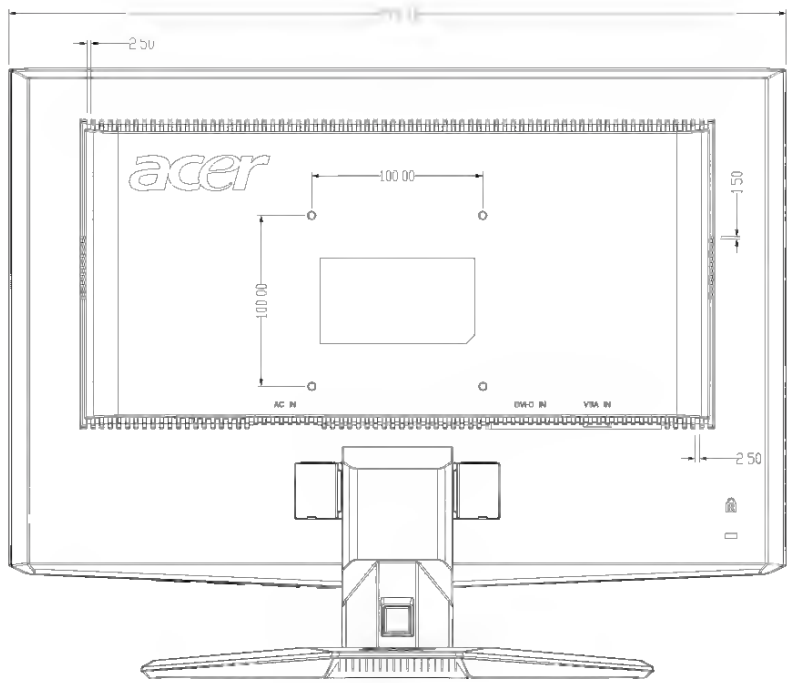
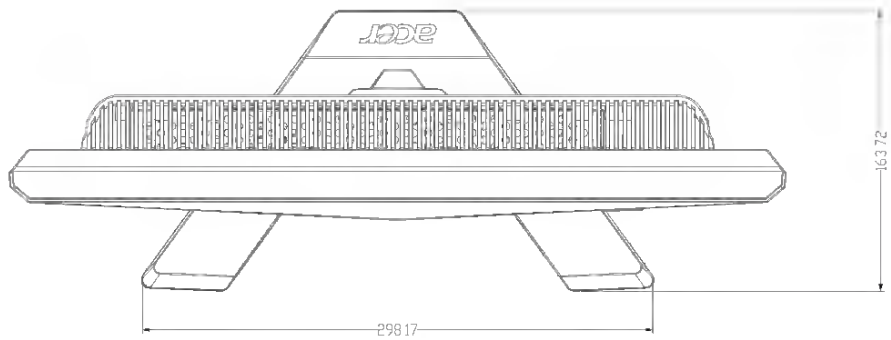
Real View :





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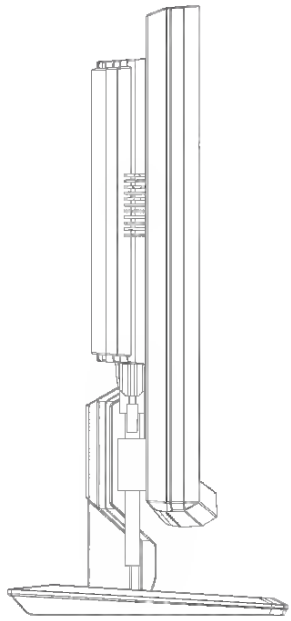
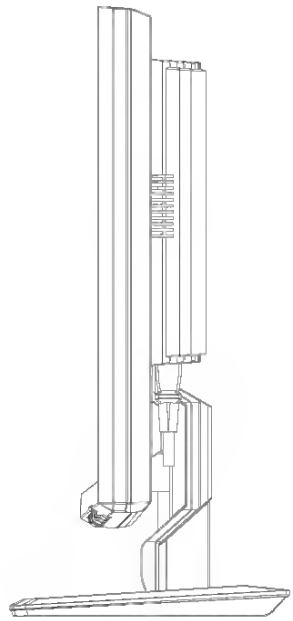
Side View: (unit: mm)





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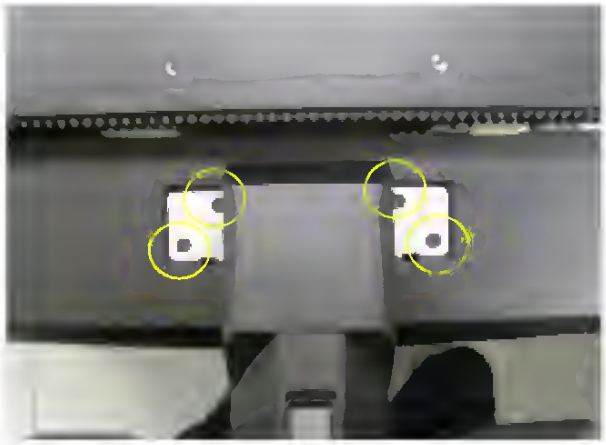
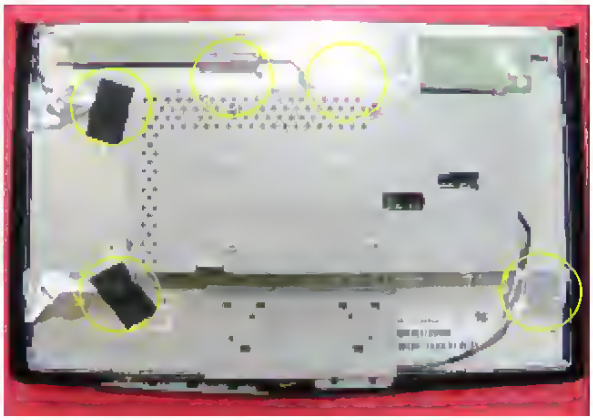
Assembly Procedure

1. Take out hinge cover from stand.

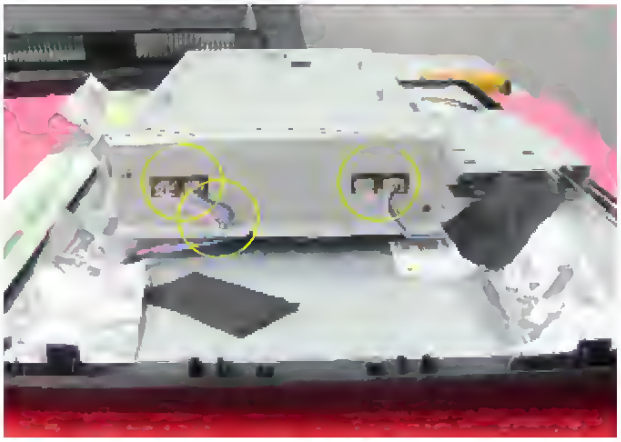


2. Remove 4pcs screws from stand and take out it.

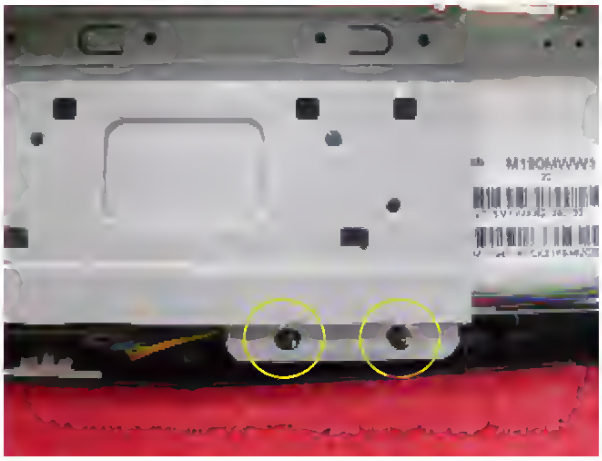
3. Remove 1pcs screw from rear cover and take out it.



4. Tear off all the tapes.



5. Tear off the lamp cable from p/b.



6. Remove 2pcs screws from PCB shielding.

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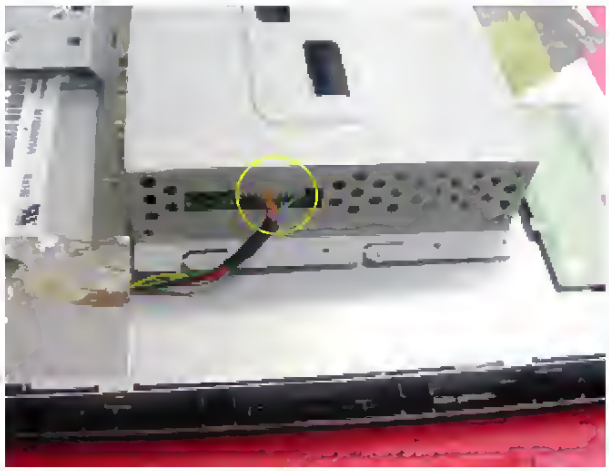
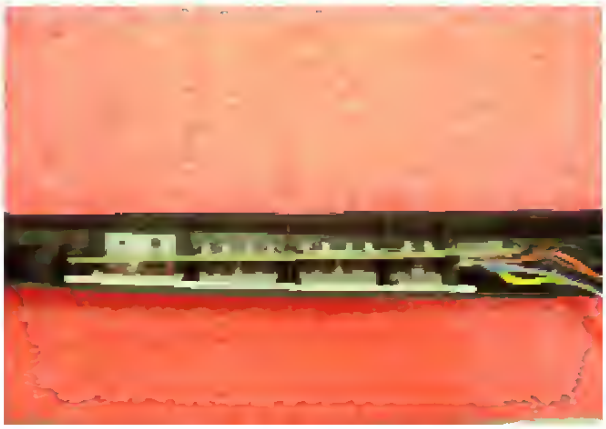
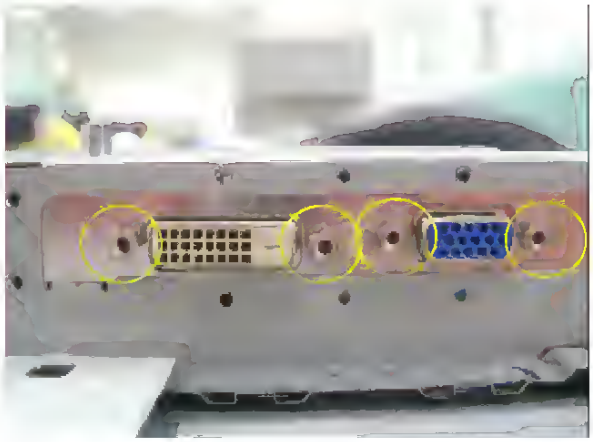


7. Tear off the b/b cable from m/b.

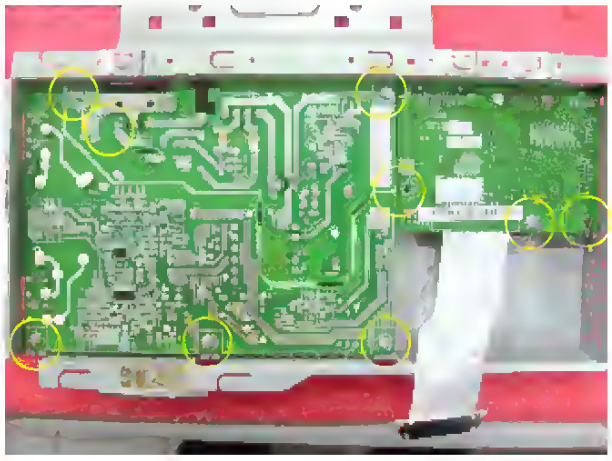
8. Take off the PCB shielding and bezel from panel.



9. separate the b/b from bezel.



10. Remove 4pcs IO NUTs from m/b.



11. Remove 8pcs screws from m/b and p/b, then separate them..

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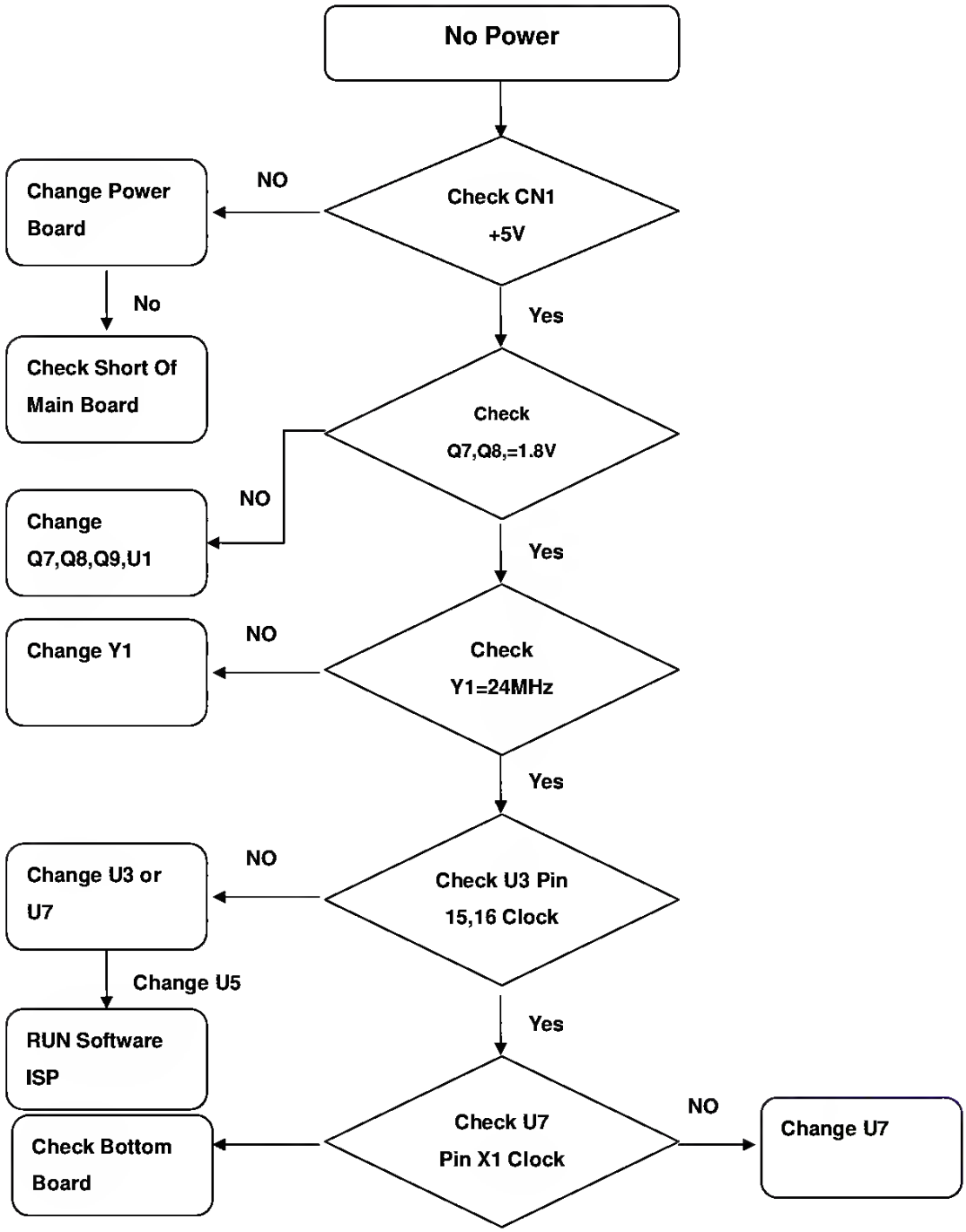
Chapter 4

TROUBLE SHOOTI NG

This chapter provides trouble shooting information for X193W

1. No Power



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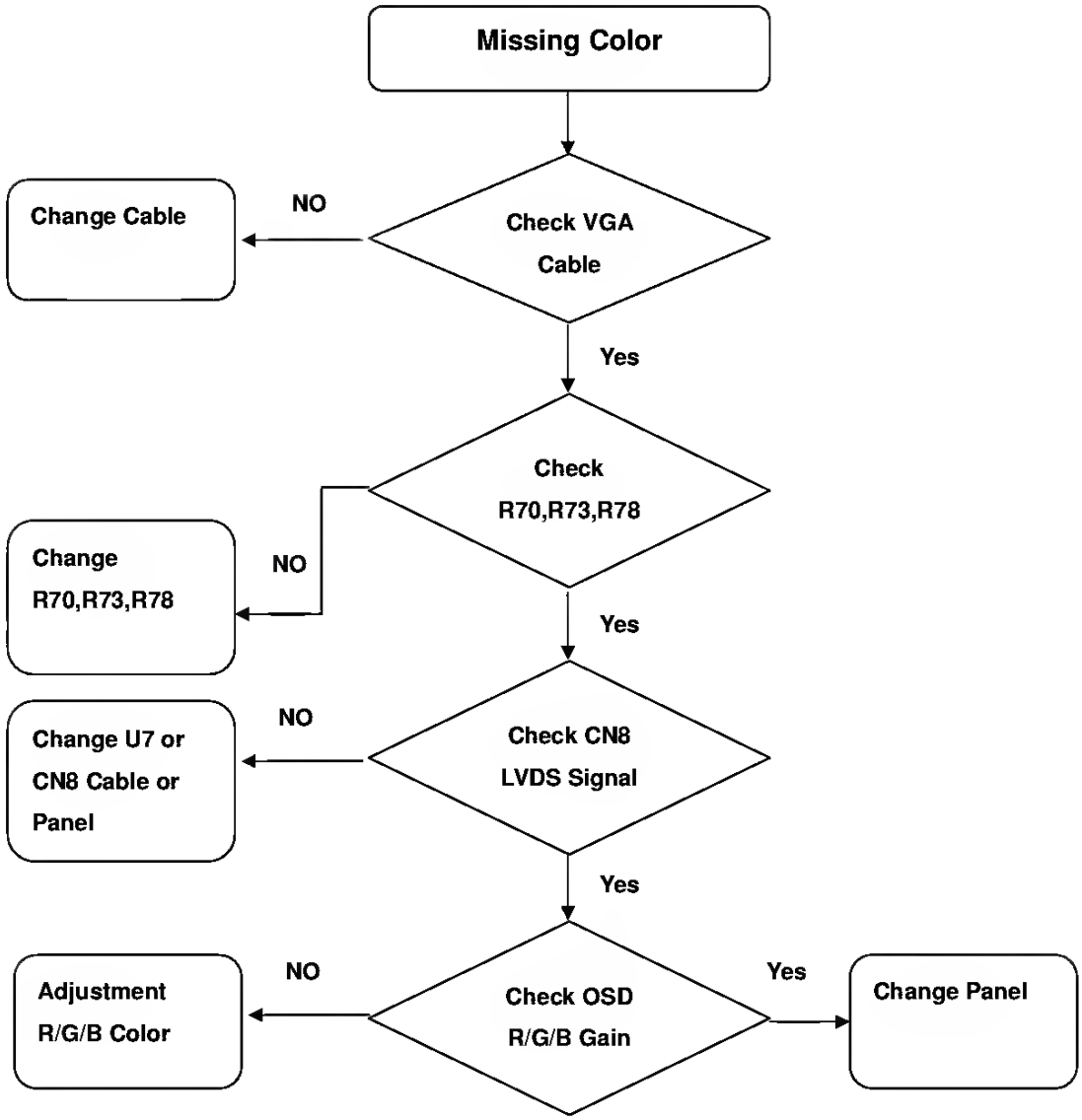
2. Missing Color



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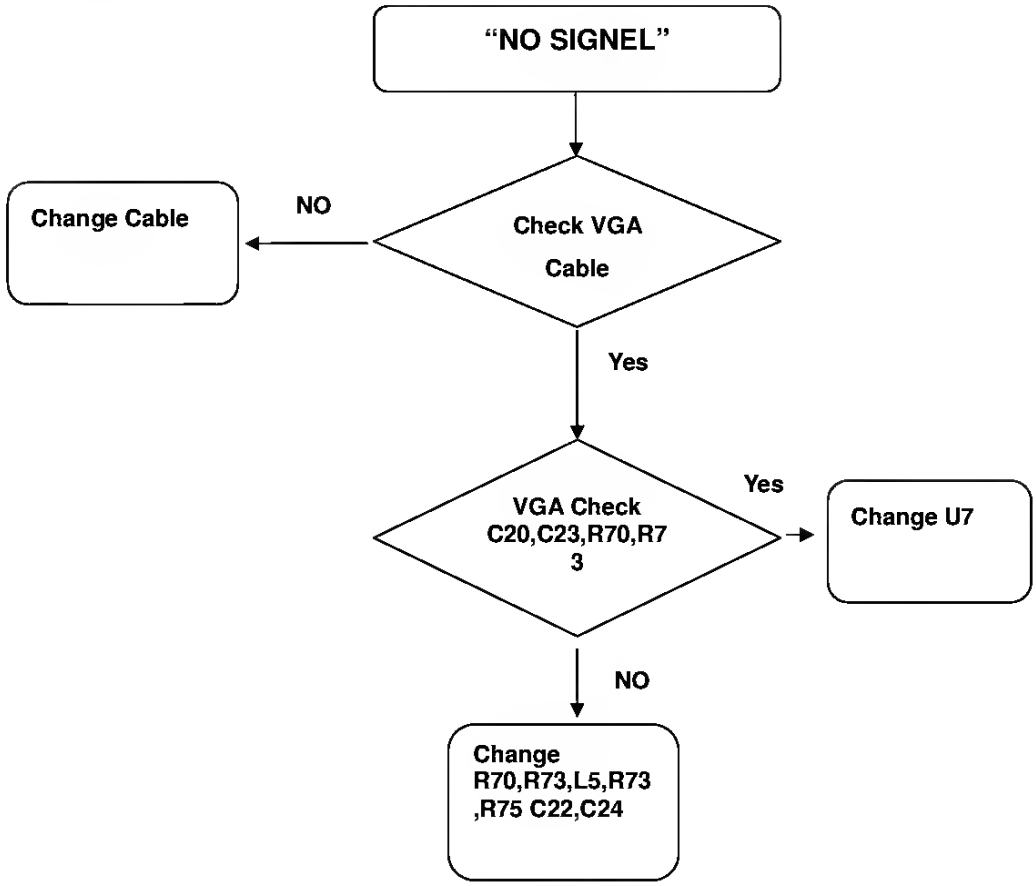
3. Always show “NO SIGNEL”



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Chapter 5

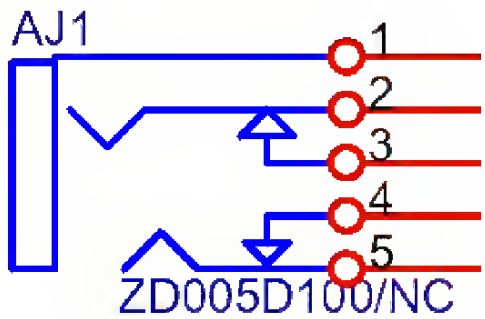
Connector Information

Phone jack stereo

PIN1. AC power cord: CEE22 typed connector

PIN2. Audio cable

PIN3. Audio: Line-in receptacle



Video signal connector 15P Mini D-Sub connector x 1

PIN	Signal
1	Red
2	Green
3	Blue
4	No Pin
5	Ground
6	Ground Red
7	Ground Green
8	Ground Blue
9	+5 V for DDC
10	Ground
11	Ground
12	SDA (DDC Data)
13	H – Sync
14	V – Sync
15	SCL (DDC Clock)

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Chapter 6

FRU (Field Replaceable Unit) LIST

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of X193W. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE: Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel(http://aicsl.acer.com.tw/spl/). For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED CERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how best to dispose it, or follow the rules set by your regional Acer office on how to return it.

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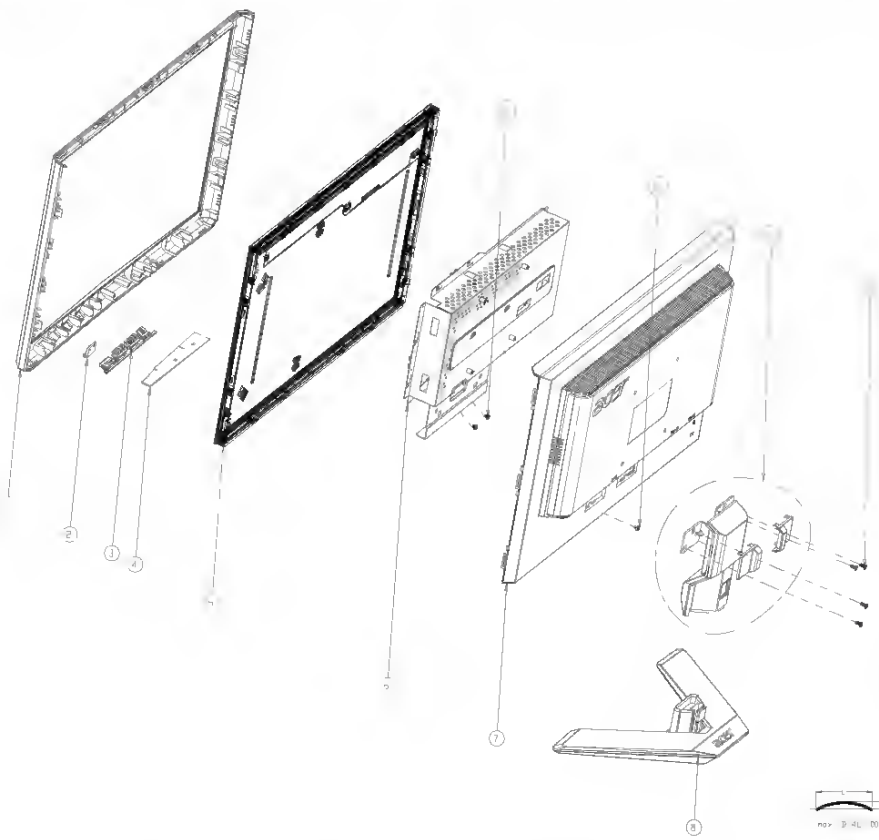

ITEM	PART NO	DESCRIPTION	QTY
1	[illegible]	FRONT BEZEL W9T9 G1	1
2	[illegible]	LENS W9T9 G1	1
3	[illegible]	POWER BUTTON W9T9 G1	1
4	[illegible]	W9T9 BUTTON/LED ASSY	1
5	[illegible]	19" WXGA M190MW01 2.0 SMA	1
6	[illegible]	W9T9 G1 PCB SHIELDING ASSY	1
7	[illegible]-T02	REAR COVER W9T9 G1	1
8	[illegible]	W9T9 G1 BASE SUB ASSY	1
9	[illegible]	SCREW M4.0x8 F(N) NYLOK)	8
10	MF300809J27	SCREW F3.0x8.0 R(ND) GP	1
11	MS300807155	SCREW F3.0x8.0-T WITH-WSP GP	1
12	37W9T9S0002	W9T9 G1 STAND SUB ASSY	1

NOTES
1. SHOW TOLERANCE INDICATED CRITICAL DIMENSION
2. △ THIS SYMBOL INDICATED REVISION
3. ☆ THIS SYMBOL INDICATED SPECIAL SPEC

ITEM	PART NO	DESCRIPTION
1	[illegible] 10003	W9T9 G1 LCD MONITOR(17" [illegible])

[illegible] International Technology Inc.
[illegible] Hwa Ya 2nd Rd. Kwei Shan Hsiang
[illegible] Taoyuan Shien Taiwan ROC

NAME	W9T9-G1 LCD MONITOR EXPLODE DRAWING				
TOL ±	1 PLC	2 PLC	ANGLE	UNIT	mm
MATERIAL				SCALE	
FINISH				DATE	FEB-15-08
THE 3RD PROJECTION				DWG NO	

RANGE	TOLERANCE
0-10	±0.10
10-50	±0.15
50-100	±0.20
100	±0.25

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Chapter 7

SCHEMATIC DIAGRAM

CONTENTS

SCHEMATIC	SHEET
CONTENT	35
POWER	36
MCU	37
VGA AND TMDS INPUT	38
RTD2525LH	39
AUDIO	40

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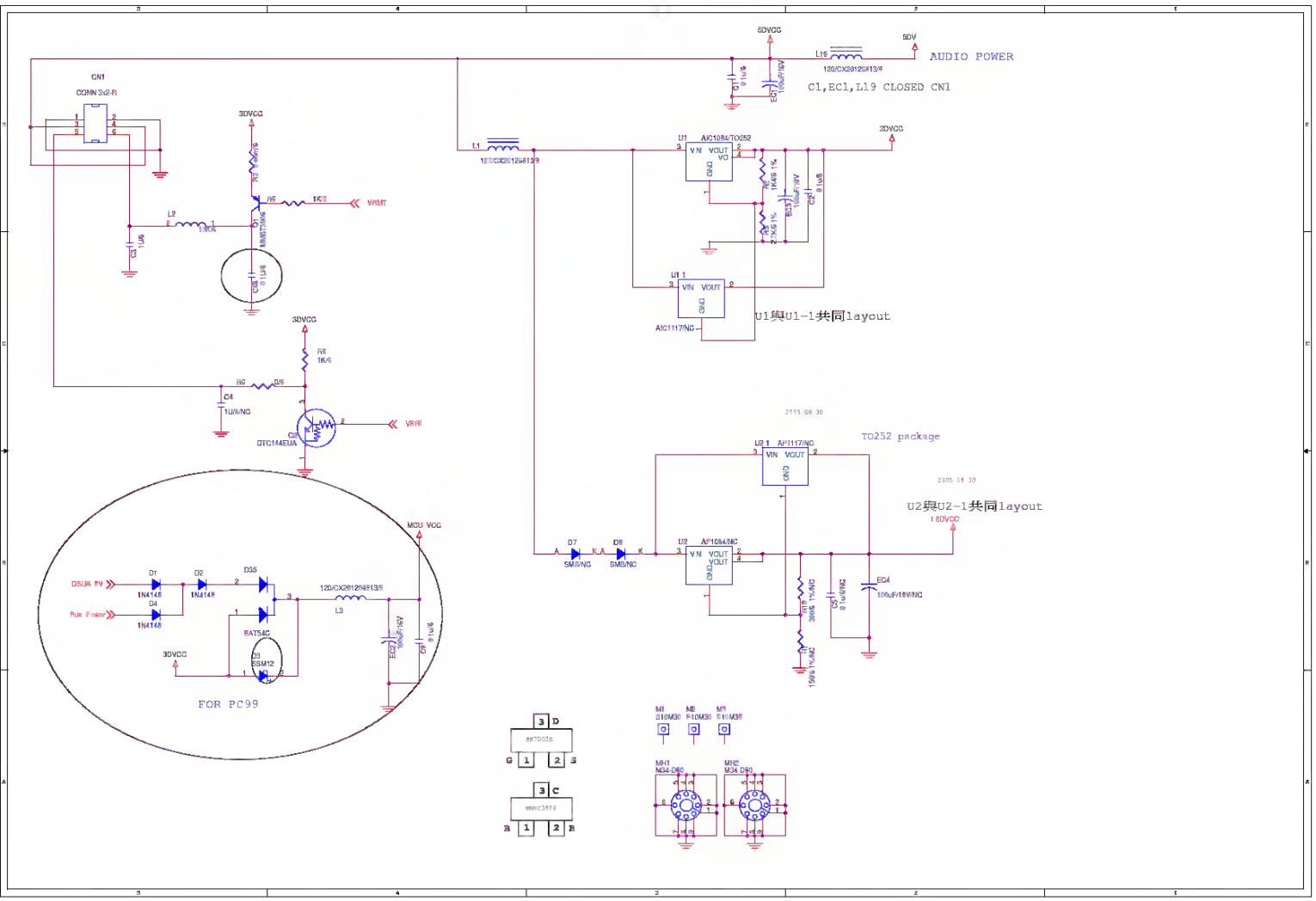

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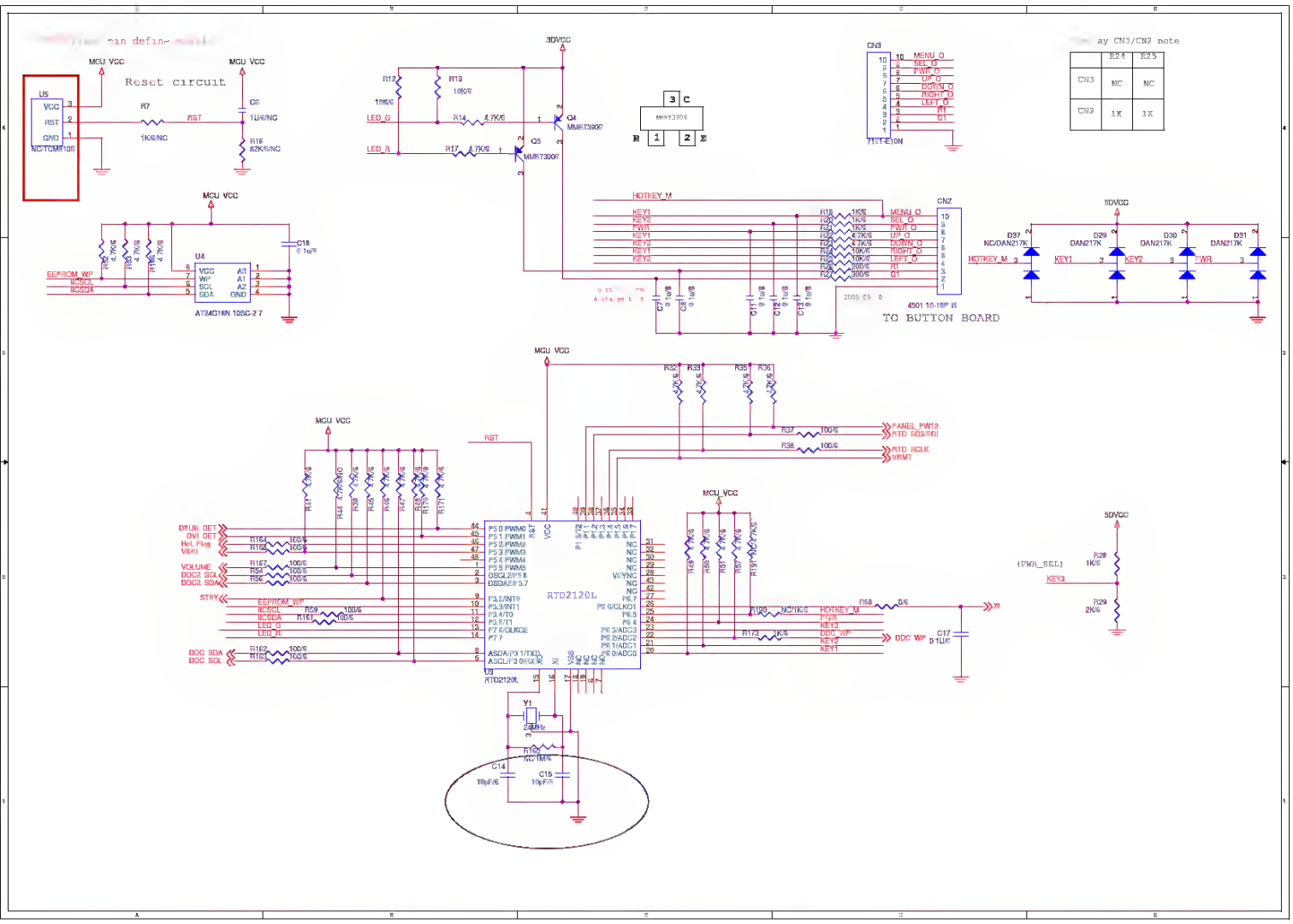

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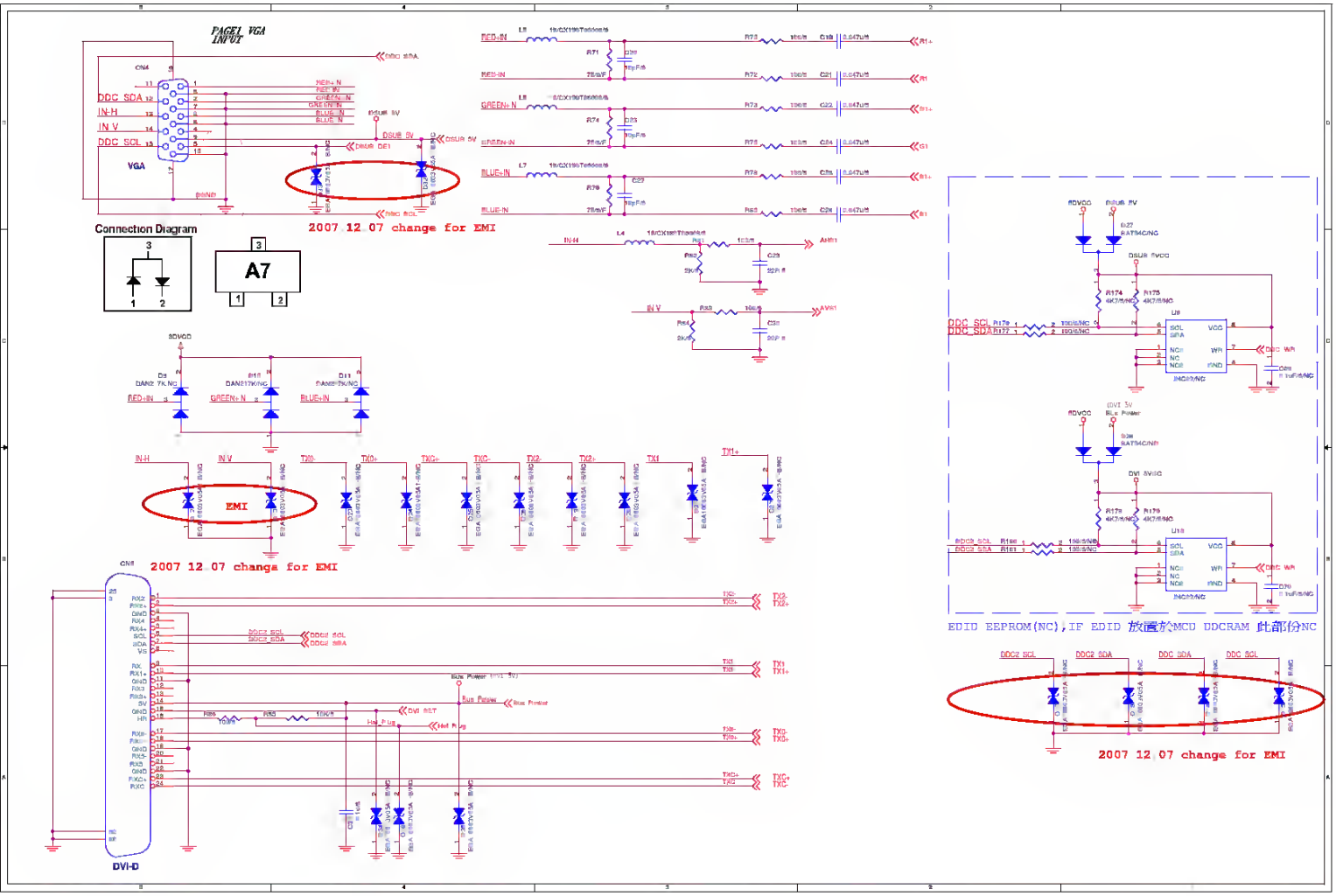

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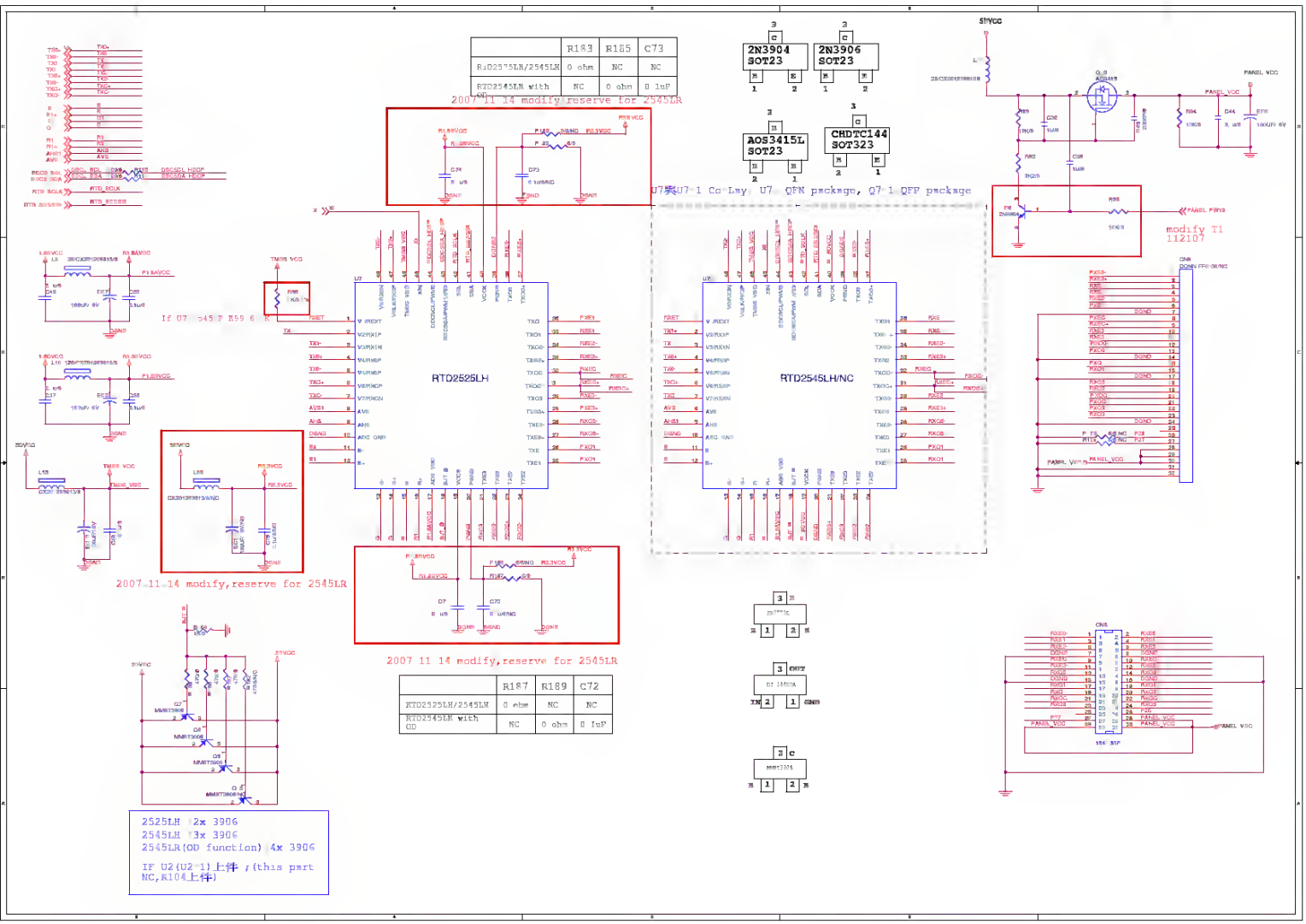
R183 R185 C73
RTD2525LH/2545LH 0 ohm NC NC
RTD2545LH with OD 0 ohm 0 ohm 0.1nF
2007 11 14 modify,reserve for 2545LR
2N3904 SOT23
2N3906 SOT23
AOS3415L SOT23
CHDTC144 SOT323
U7采U7-1 Co-Lay: U7 QFN package, Q7 1 QFP package
modify T1 112107
RTD2525LH
RTD2545LH/NC
2007_11_14 modify,reserve for 2545LR
2007 11 14 modify,reserve for 2545LR
R187 R189 C72
RTD2525LH/2545LH 0 ohm NC NC
RTD2545LH with OD NC 0 ohm 0.1nF
2525LH 2x 3906
2545LH 3x 3906
2545LR(OD function) 4x 3906
IF U2(U2-1)上件 ;(this part NC,R104上件)

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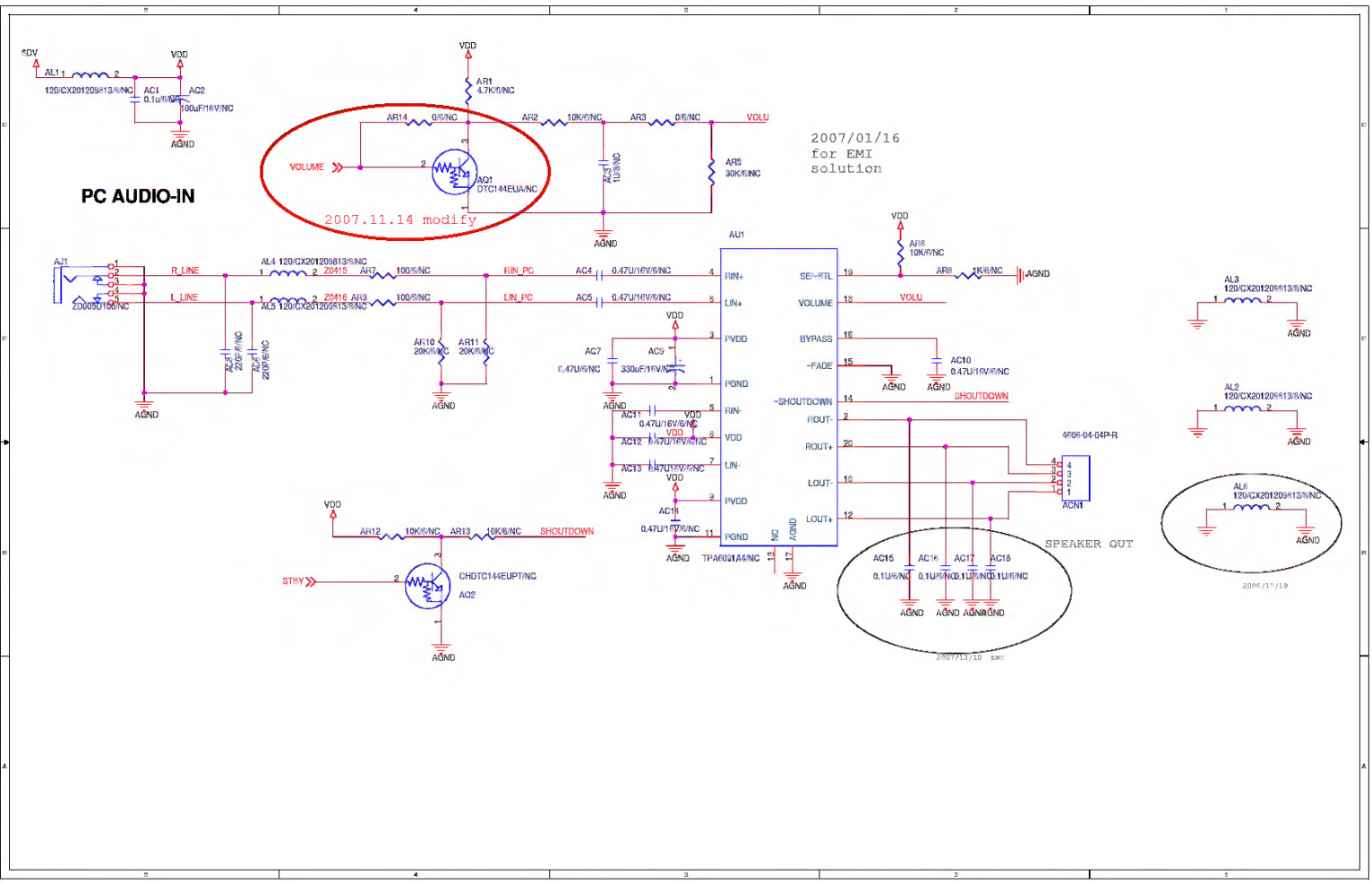

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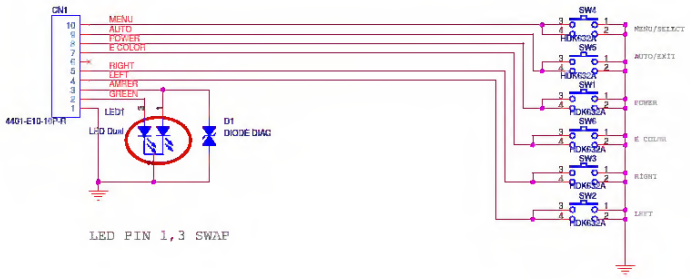
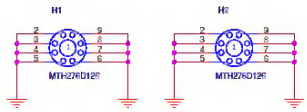
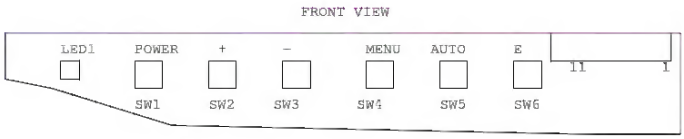
Button Board



LED PIN 1,3 SWAP





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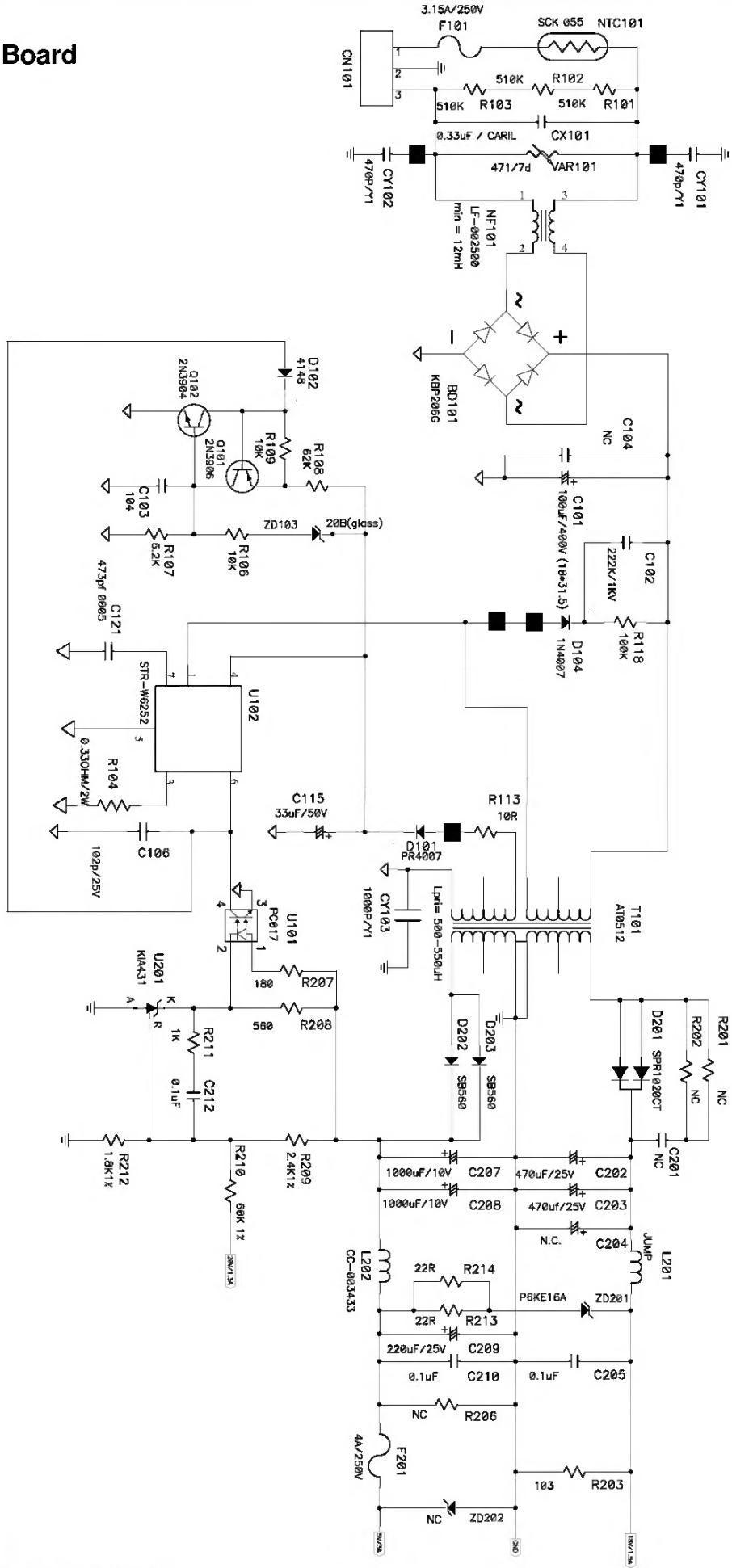
Power Board



LIEN CHANG ELECTRONIC CO.			
Size A4	Number AIP-0180 17"19"		Rev F1
Date 2/18/2008		Drawn by H-Y TSAI	
Filename		Sheet 1 of 1	

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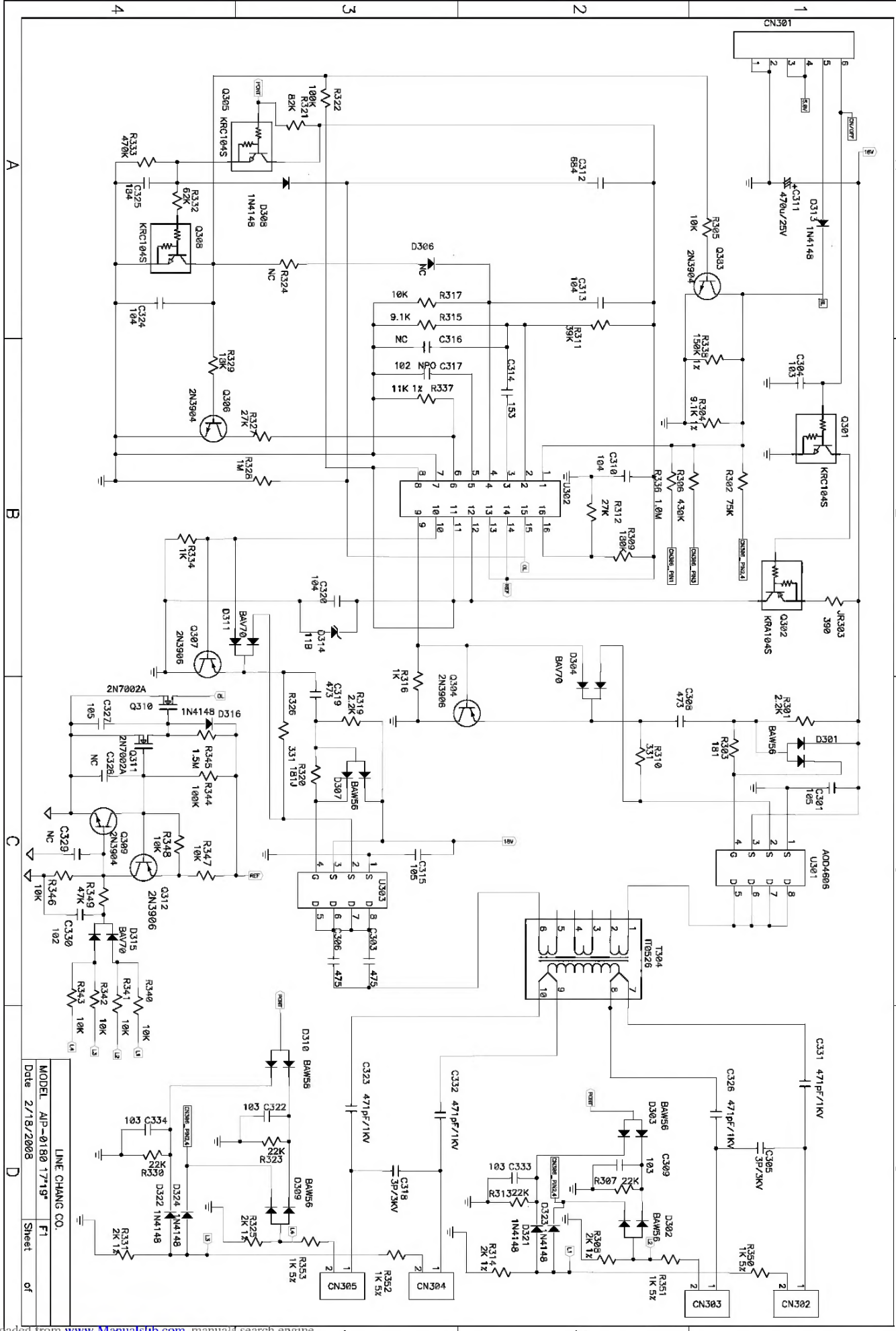

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